DCL-200 FD 1080p DLP LED Front Projector

Basic User and Connectivity Guide

Preface

ABOUT THIS MANUAL

This manual is designed for use with the Wolf Cinema DCL-200FD Home Cinema Projector and Outboard ProScaler™ Video Processor. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information and specifications in this document are subject to change without notice.

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TRADEMARKS

All trademarks and registered trademarks are the property of their respective owners.

FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

FEDERAL COMMUNICATIONS COMISSION (FCC) STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

The lighting flash with arrow head within an equilateral triangle is intended to alert the user to the presence of "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISH OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNAL ONLY.

Notices

WARNING! To meet FCC requirements, a shielded power cord is recommended in order to prevent interference. It is essential that only the supplied power cord is to be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not approved by the party responsible for compliance could void your authority to operate the equipment.

WARNING! High-brightness light source. Do not stare into the beam of light, or view directly. Be especially careful and ensure that children do not stare directly into the beam of light.

WARNING! To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

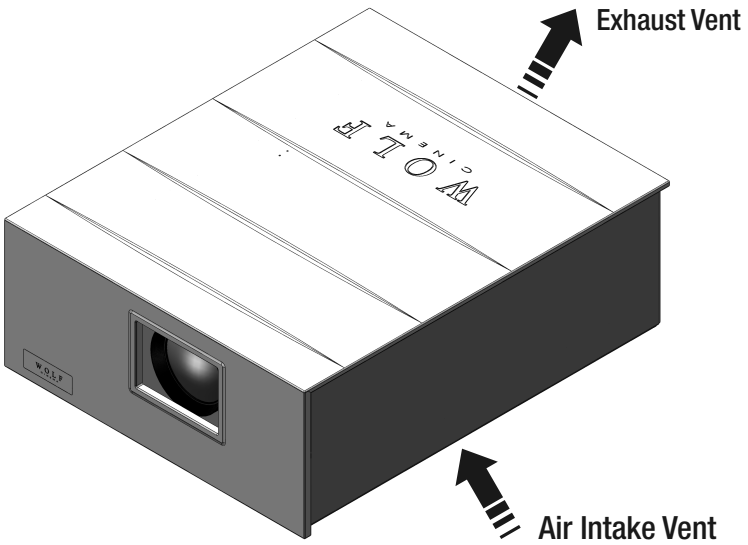
CAUTION! For minimal servicing and to maintain high image quality, we recommend that you use the projector in an environment that is smoke and dust free. When used in areas where there is a lot of smoke or dust, the filter and lens should be cleaned often to lengthen the service life of the projector.

WARNING! Some IC chips in this product include confidential and/or trade secret property belonging to Texas Instruments. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble or decompile the contents thereof.

WARNING! The ventilation slots and objects next to them may get extremely hot during operation. Do not touch these areas until they have sufficiently cooled down.

DISPOSAL Do not use household or municipal waste collection services for disposal of electrical and electronic equipment. EU countries require the use of separate recycling collection services.

CAUTION REGARDING THE EXHAUST OF THE PROJECTOR
Do not place the projector in a space that is poorly ventilated or confined. Allow at least 20 in. (50 cm) clearance from walls and have free air flow around the projector.



Before using the projector, please read this operation guide carefully.

To facilitate reporting the loss or theft of your Wolf Cinema components, record the Serial Number located (a) on the bottom of the projector and (b) on the rear of the outboard ProScaler; retain this information. Before recycling the packaging, be sure that you have checked the contents of the carton(s) thoroughly against the list of "Package Contents" on page 6.

WARRANTY
Promptly register the Projector's Warranty using the REGISTRATION CARD packed with the projector. The Warranty assures that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.

LED LIGHT:
DO NOT STARE INTO BEAM
CLASS 2 LED PRODUCT
$P \leq 0.88$ mW $\lambda = 452$ nm
ICE 60825-1:1993 + A1:1997 + A2:2001
EN 60825-1:1994 + A2:2001 + A1:2002

Connecting Source Components

Before Setting Up

Note: • Before connecting, be sure to turn off both the projector, the ProScaler and the devices to be connected. After making all connections, turn on the projector, ProScaler and then the other devices.
• When connecting a computer, be sure that it is the last device to be turned on after all the connections are made.
• Be sure to read the operation manuals of the devices to be connected before making connections.

Your Wolf Cinema DCL-200FD system can be connected to:

Video Equipment:
- VCR, Laser disc player, camcorders or other video equipment.
- Satellite, Cable or DTV* sources.
- Blu-ray players, DVD players.

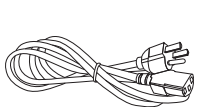
Computers:
- HD 15-pin VGA to RGBHV cabling (optional items sold separately).
- HD 15-pin VGA to HDMI converter box and cabling (optional item sold separately).

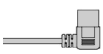
*DTV is the umbrella term used to describe the new digital television system in the United States.

Connecting the Power Cords

Plug in the supplied power cords into the AC socket from the base of the Projector and rear of ProScaler.

Supplied Accessories: Power cords (2)





Note: The projector power cord has a right angle head to fit within the case.

System Remote Control – Key Projector Functions

The Wolf DCL-200FD system features an integrated, learning remote and provides for all system functions. The primary IR remote usage controls are outlined over the next two pages. This page highlights the main projector functions

Note: SELECT THE **TV** BUTTON TO ENABLE THE PROJECTOR CONTROLS

Projector Power ON Button
Press to turn the Projector on

Projector TV Select Button
Press to enable all remote functions for the Projector

Menu Button
Press to enable on-screen display menus

Projector Power OFF Button
Press to turn the Projector off

Favorite Aspect Ratio Button
Changes the projector image shape to best fit your screen

Exit Menu Button
Exits the on-screen display

Adjustment Navigation
(Up, Down, Left, Right)
Navigates through on-screen menus

Select: **OK** to adjust focus and zoom

Note: To adjust the lens focus or the image size, press **OK** on the remote control then follow the instructions on Focus and Zoom menu.

System Remote Control – Key ProScaler Functions

The following are the key PROSCALER functions, within the common remote control structure.

Note: SELECT THE **SCALER** BUTTON TO ENABLE THE PROCESSOR CONTROLS.
Also refer to the separate Wolf Cinema ProScaler User Guide for additional details.

Processor Power ON Button
Press to turn the Processor on

Processor Power OFF Button
Press to turn the processor off

Input Select Button
Press to select available device inputs

Menu Button
Press to enable on-screen display menus

OK Enter Button
Select items or make adjustments from the menu

Exit Menu Button
Exits the on-screen display

Adjustment Navigation
(Up, Down, Left, Right)
Navigates through on-screen menus

Source Device Input Buttons
Press to directly select the available components connected to the ProScaler Processor

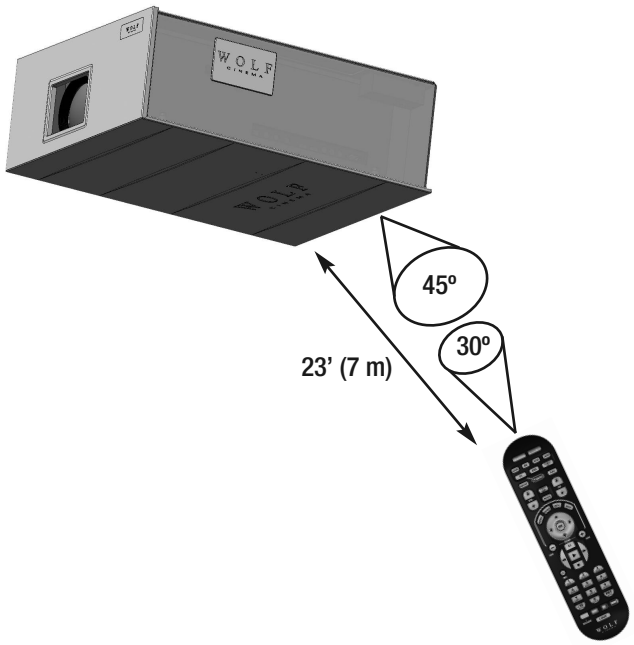
ProScaler Select Button
Press to change remote from Projector controls to ProScaler Processor functions

ProScaler Aspect Control Buttons
Adjust image sizing via the ProScaler software

Available Range of the Remote Control

The remote control can be used to control the projector and processor within the ranges shown in the illustration.

Note: • Using the remote control out of range may affect the received signal.



When using the remote control:

- Be sure not to drop it, or expose it to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp or in bright sunlight.

Inserting the Batteries

The batteries (two "AA" size) are included in the package.

1 **Press down the tab on the cover and pull the cover towards the direction of the arrow.**

2 **Insert the included batteries.**
Insert the batteries making sure the polarities correctly match the positive and negative marks inside the battery compartment.

3 **Insert the lower tab of the cover into the opening, and press down the cover until it clicks in place.**

DCL-200 FD 1080p DLP LED Front Projector

Basic Connectivity Guide

Wolf Cinema's DCL-200FD projector is optimized to work with the included ProScaler. The ProScaler and projector are carefully calibrated at the factory to support all basic functionality "out of the box."

The projector uses one primary HDMI input, which accepts all incoming video signals as delivered from the ProScaler. The ProScaler processes and routes the variety of source components via the input selected.

There are 10 video inputs on the ProScaler: 6 HDMI [one front panel], 1 Component, 1 Component/RGB, 1 S-Video and 1 Composite input.

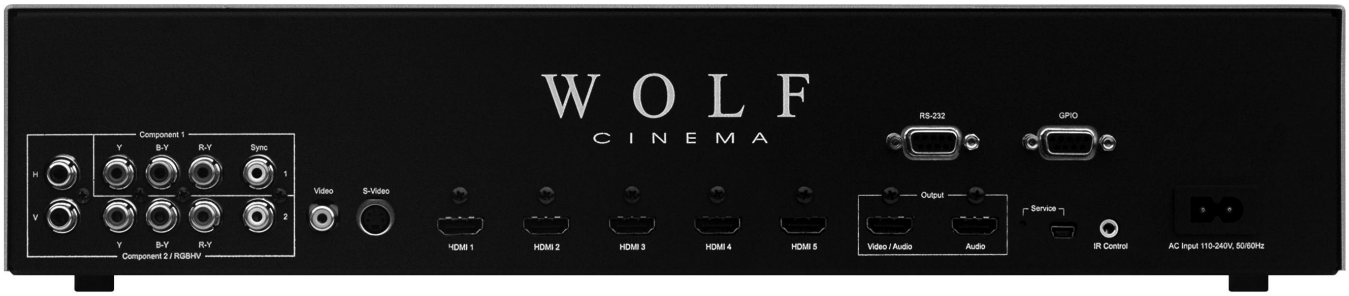
For additional ProScaler operation details, refer to this guide and the separate user manual: **WOLF CINEMA PROSCALER USER MANUAL**

Connecting the Projector and ProScaler

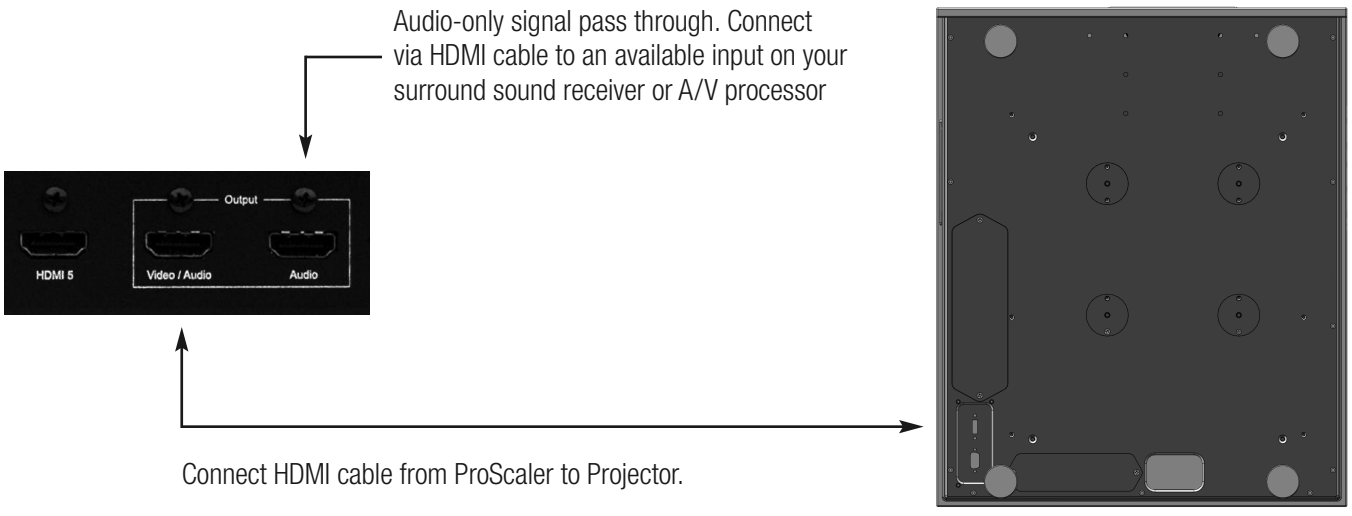
The following basic steps are to be performed to connect all source components, Projector and ProScaler:

1 Connect all sources to the inputs of the ProScaler. For additional details please see the ProScaler Owners Manual.

Note: HDMI input #6 is under the removable WOLF CINEMA logo plate on the panel front.

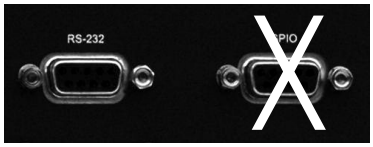


2 Connect the HDMI signal cable to projector: Connect your long run HDMI video signal cable between the ProScaler video output directly to the Projector. Connect the Audio Only HDMI cable (pass through) to your surround sound receiver or processor.



Note: Wolf Cinema always recommends that you, your custom installer or video calibrator thoroughly test the HDMI video cable(s) with the entire system prior to final installation. HDMI cables vary greatly in overall quality and signal integrity. Many HDMI cables are not designed to support certain information and signal timings over long cable runs. Contact Wolf Cinema technical support and/or your cable manufacturer for additional information regarding recommended HDMI cable lengths and overall system compatibility.

3 **RS-232:** Route and connect any 9-pin RS-232 cables from your external home automation or control system, separately to both Projector and ProScaler. These two components should be controlled independently.



Note: The GPIO port not used in the DCL-200FD system. It is reserved for discrete communication protocol between the ProScaler and our DCX-series of video projectors. Leave disconnected.

RS-232 interconnect between ProScaler and external control system

4 Connect both Projector and ProScaler to AC power.

Note: Use extreme care when connecting AC Power to any products. Review the important safety notices indicated on pages 1-3 of this manual.

5 Power on the two components:

ProScaler: The ProScaler will automatically turn on. If a Red LED is shown on the right side of the front panel, the scaler is receiving AC power but no video input signal is detected. If a Blue LED is shown, the scaler is receiving AC power and a good video signal has been detected. No LED indicates there is no AC power to the scaler.

If the ProScaler does not turn on automatically, depress the **SCALER** button on the lower left of the system remote control and then depress the green POWER **ON** button at the top.

Step 1 - Select the **SCALER** button to activate all the ProScaler IR commands via the remote control →

Step 2 - Aim the remote at the ProScaler. Select the green **POWER ON** button to turn on the ProScaler →

Projector: The Projector will remain in a stand-by **OFF** mode until turned on via the supplied IR remote control, or by receipt of a discrete **ON** command from your home automation control system.

To activate the Projector, select the **TV/Projector** button on the IR remote control, then depress and HOLD the green POWER **ON** button at the top of the remote. The projector will turn on in approximately 30 seconds.

Step 1 - Select the **TV/Projector** button to activate all the Projector IR commands via the remote control →

Step 2 - Aim the remote at the Projector. Depress and HOLD the green **POWER ON** button for 2 seconds to turn on the Projector →

5 Select from the desired components connected to the ProScaler:

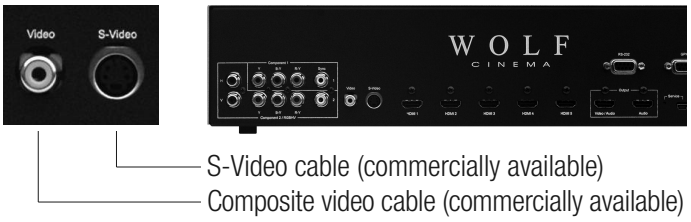
Upon power up, the ProScaler defaults to the HDMI #1 input. Other inputs may be directly accessed via the numeric keypad on the ProScaler remote:

To select from available sources, first select the **SCALER** button, aim the remote at the ProScaler and then depress the desired input button, as noted on the keypad. →

Connecting Video Equipment

Using an S-Video or a Composite Video Cable

Using an S-Video or a Composite Video cable, a VCR, laser disc player or other video equipment can be connected to the labeled input terminals.



Note: The S-VIDEO terminal uses a video signal system in which the picture is separated into color and luminance signals to realize a higher-quality image. To view a higher-quality image, use a commercially available S-Video cable to connect the INPUT 3 terminal on the projector and the S-Video output terminal on the video equipment.

Connecting to Component Video Equipment

Using a Component Cable

Use a component cable (commercially available) when connecting to the COMPONENT INPUT terminals, using component video equipment such as DVD players and DTV* decoders. Connect using analog component output terminals.

*DTV is the umbrella term used to describe the new digital television system in the United States.

The component jack for a DVD and so forth may be indicated with Y, CB or CR. Connect each jack as shown right.

ProScaler	Y	B-Y	R-Y
DVD player or DTV decoder	Y Y/G	PB CB	PR CR

Note: When connecting the projector to the video equipment in this way, select **Component** for **Input Source** in the ProScaler **MENU**.

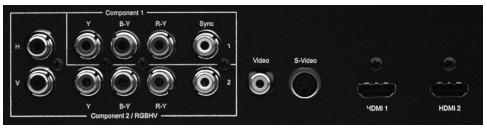
Connecting Video Components with an HDMI to HDMI Cable

Use an HDMI to HDMI cable (supplied accessory) when connecting HDMI video equipment such as Blu-ray players, DVD players and more to the six available inputs.

Note: Select the signal output type from the video equipment set up menu

Connecting a Computer

Connect the computer by either a 15-pin VGA to RGBHV cable (optional accessory, sold separately) or to a VGA to HDMI converter (also an optional accessory, sold separately). The 15-pin VGA to RGBHV cable may be connected to the appropriate component input (1 or 2, depending on the type of PC sync).



Note:
- **See page 43 "Computer Compatibility Chart" for a list of computer signals compatible with the system. Use with computer signals other than those listed may cause some of the functions not to work.**
- **A Macintosh adaptor may be required for use with some Macintosh computers. Contact your nearest Authorized Service Center or Dealer.**
- **Depending on the computer you are using, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the computer operation manual for switching the computer signal output settings.**

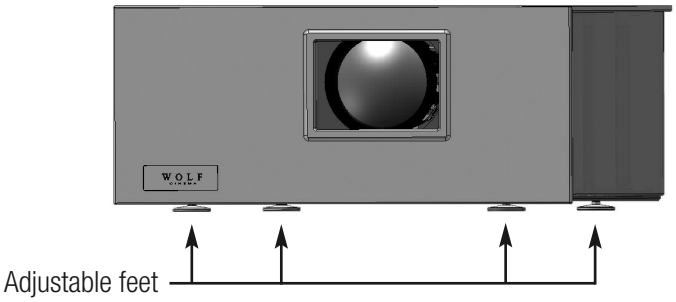
"Plug and Play" Functions [PC]

This projector and ProScaler ensemble is compatible with VESA-standard DDC 1/DDC 2B. The system and a VESA DDC compatible computer will communicate their setting requirements, allowing for quick and easy setup.

Before using the "Plug and Play" function, be sure to turn on the projector and ProScaler first and the connected computer last.

Leveling Feet

- The height of the projector can be adjusted using the leveling feet, when the projector is placed on the uneven surface or when the screen is slanted.
- If the screen is set at a slight angle, the adjustment feet can be used to match the angle at the projector.

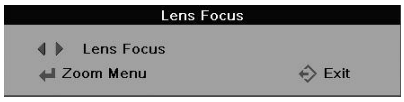


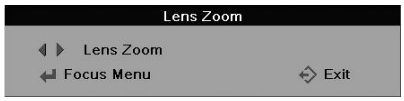
Note: When the height of the projector is adjusted, the image may become distorted (keystoned), depending on the relative positions of the projector and the screen. See DCL-200FD User Manual for details on keystone correction.

Adjusting Lens Zoom and Focus

The image is focused and adjusted to the desired size using the on-screen Focus menu and Zoom menu.

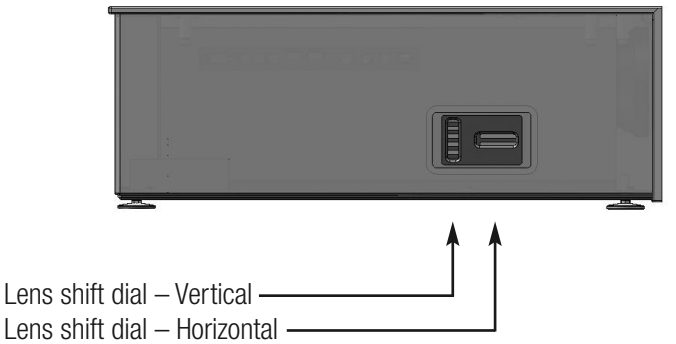
- First press the **TV/Projector** button and then press the **OK** button. The Focus menu will appear. Adjust Focus via the left and right arrow buttons on the remote.
- To select Zoom, depress the **OK** button a second time and adjust as above. To exit, either select **MENU** or the **EXIT** button.





Adjusting Lens

The height and width of the projected image can be adjusted to be within the shift range of the lens by rotating the lens shift dial on the side of the projector (remove Wolf Cinema logo plate to access dials).



Note: Do not forcibly turn the lens shift dial beyond the range. This may cause the projector to malfunction.

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WOLF CINEMA

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